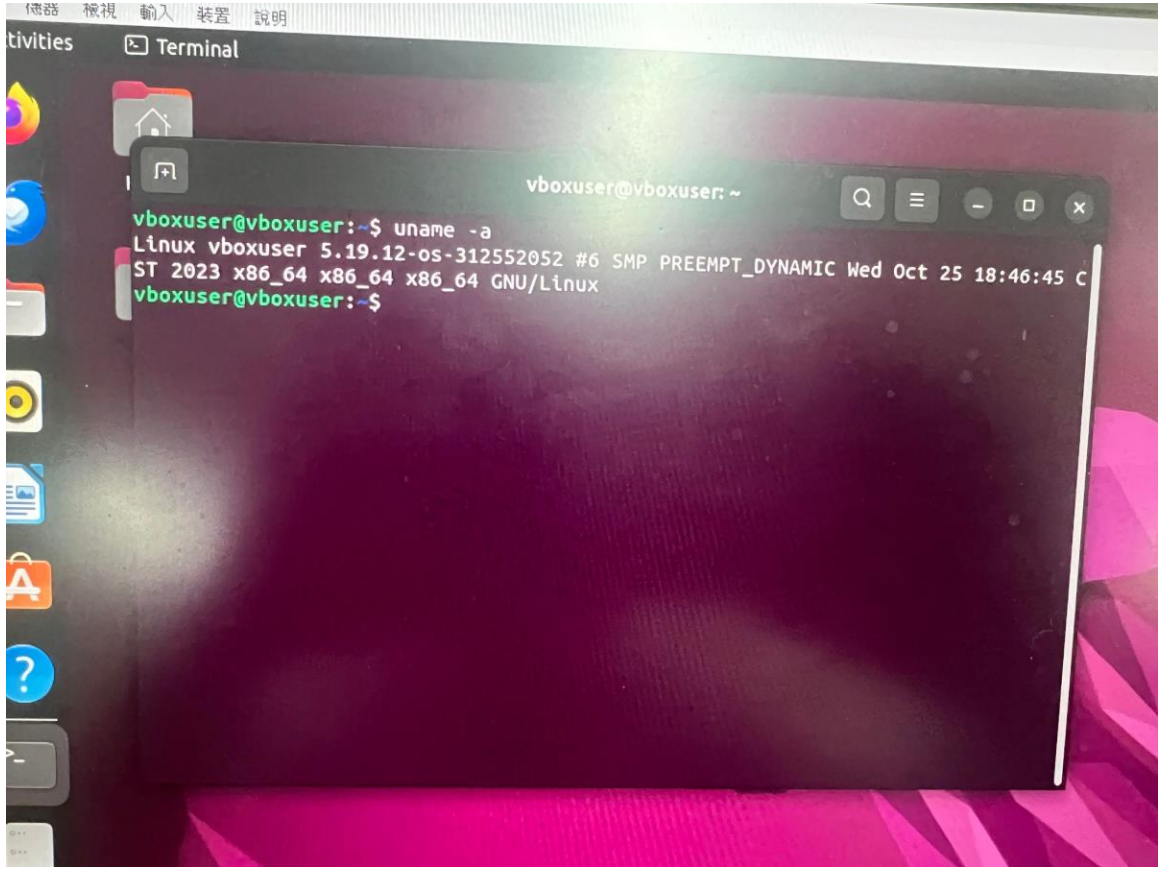
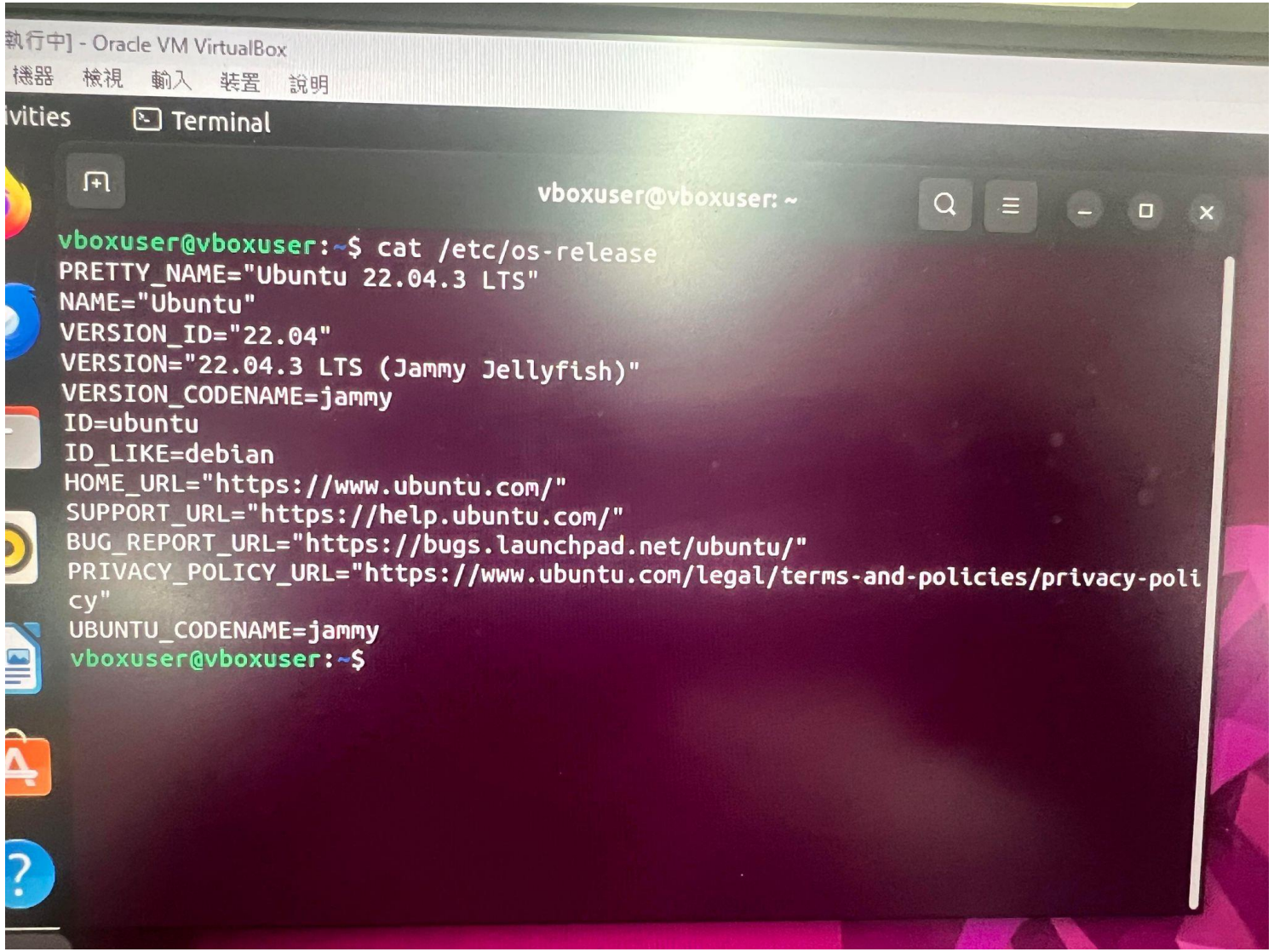
1.創建一個虛擬機,分配10核心與50GB

2.change kernel suffix

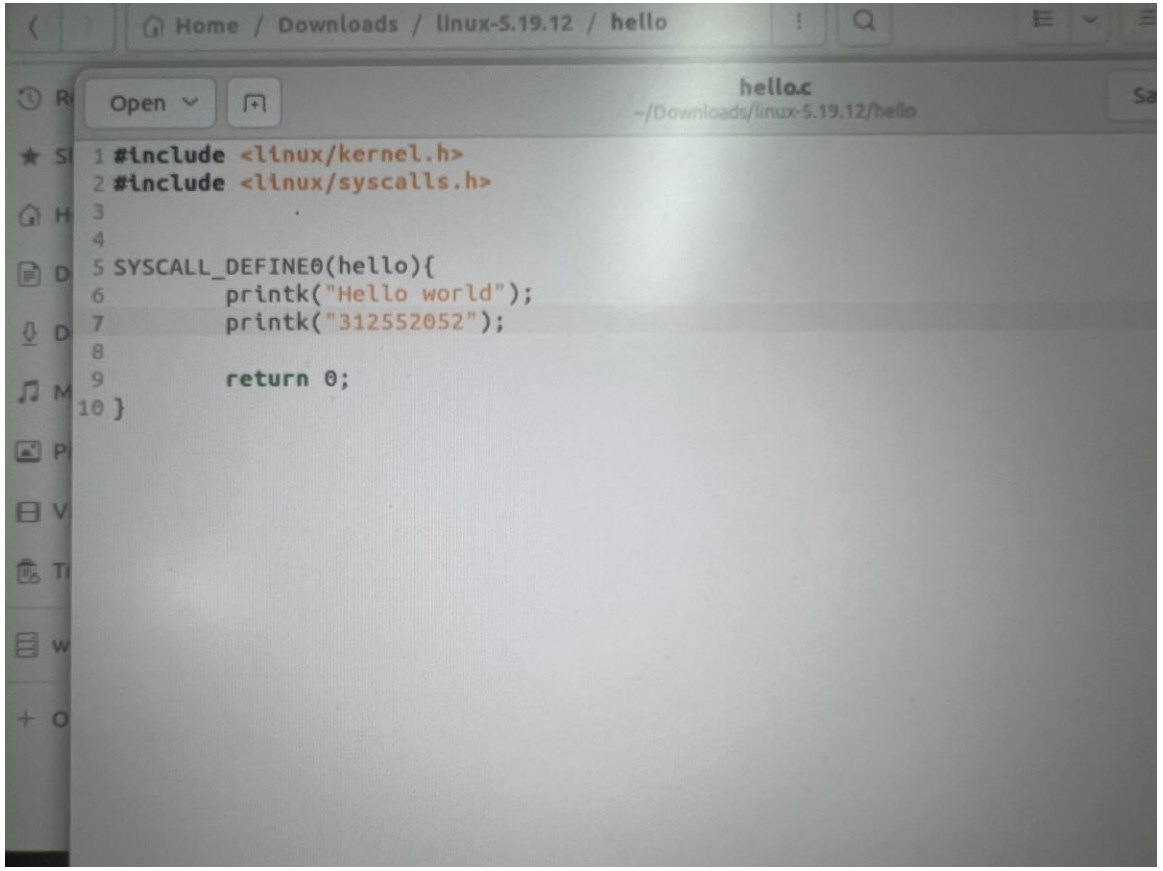



執行中] - Oracle VM VirtualBox
機器 檢視 輸入 裝置 說明
ivities
Terminal
vboxuser@vboxuser: ~
vboxuser@vboxuser:~$ cat /etc/os-release
PRETTY_NAME="Ubuntu 22.04.3 LTS"
NAME="Ubuntu"
VERSION_ID="22.04"
VERSION="22.04.3 LTS (Jammy Jellyfish)"
VERSION_CODENAME=jammy
ID=ubuntu
ID_LIKE=debian
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-poli
cy"
UBUNTU_CODENAME=jammy
vboxuser@vboxuser:~$

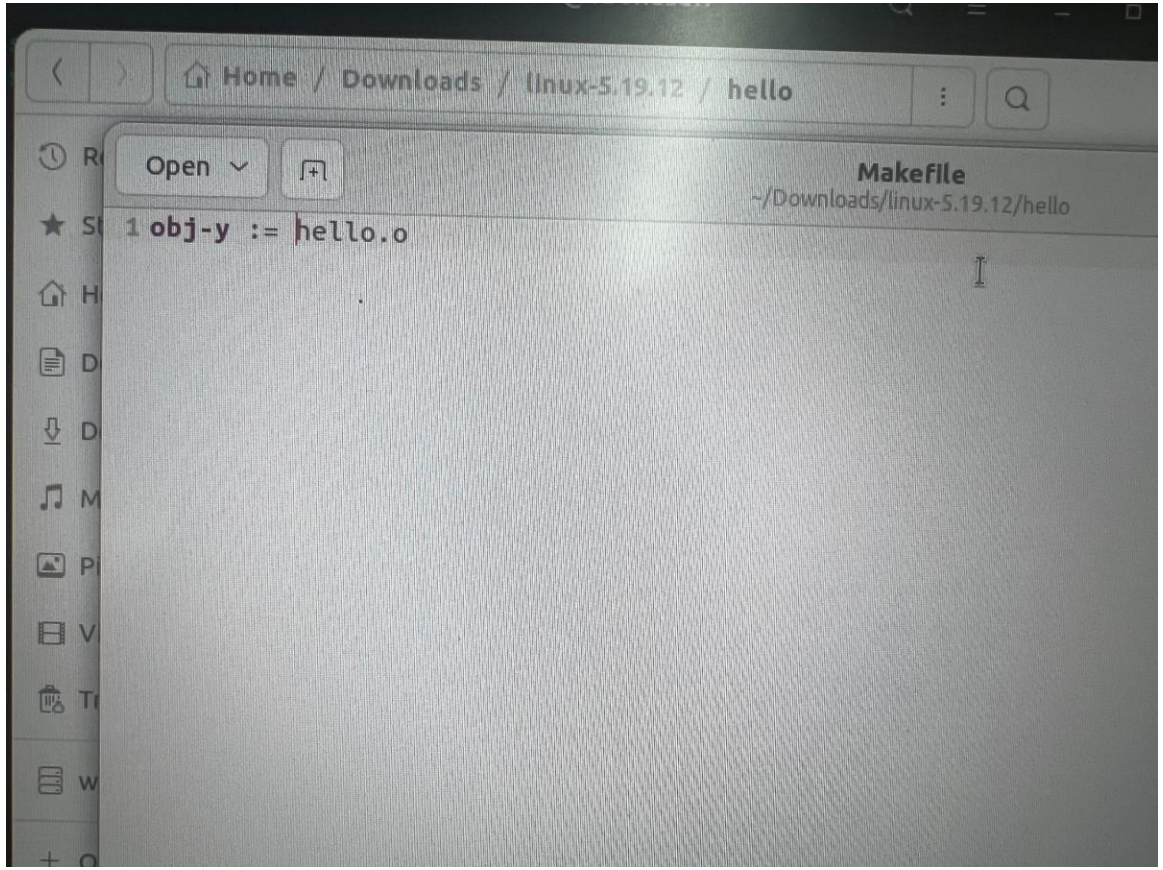
3.建一個hello資料夾

- Mkdir hello.

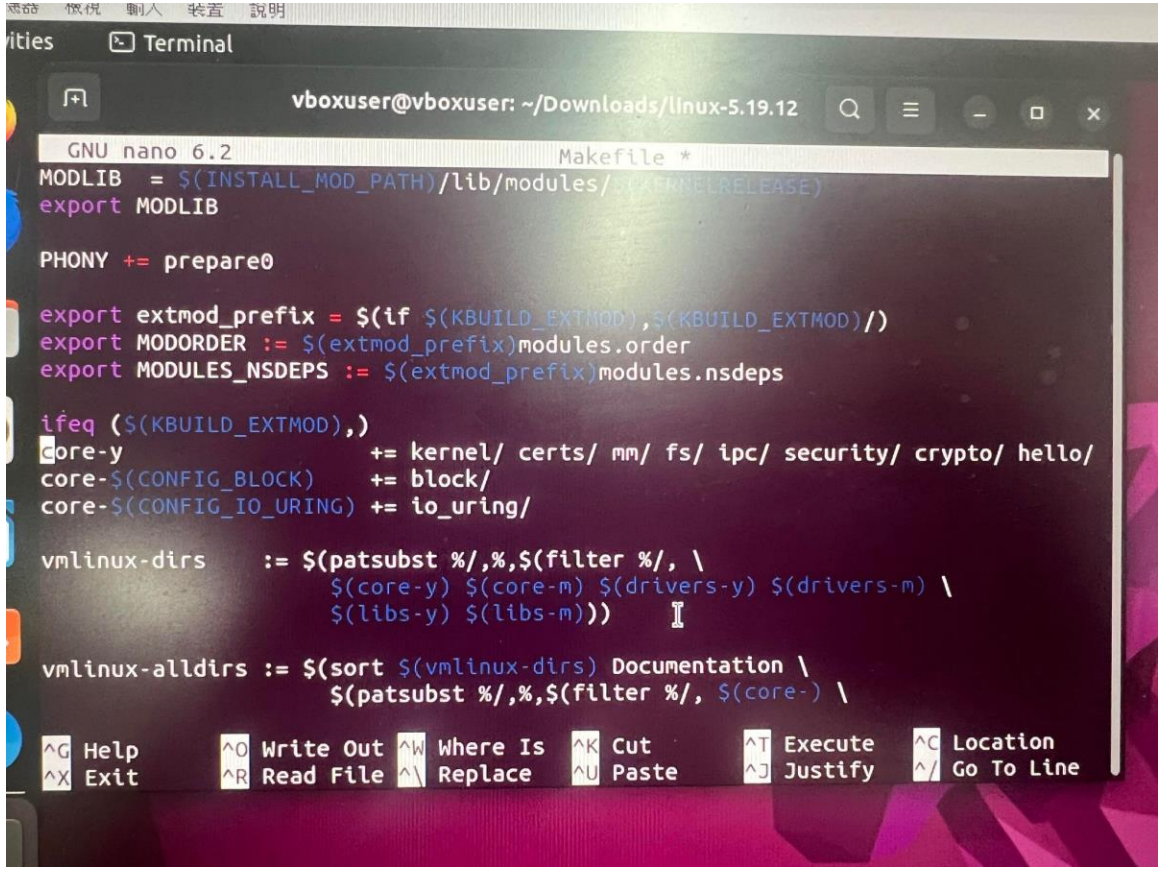
4.寫入hello.c file



5.create a makefile

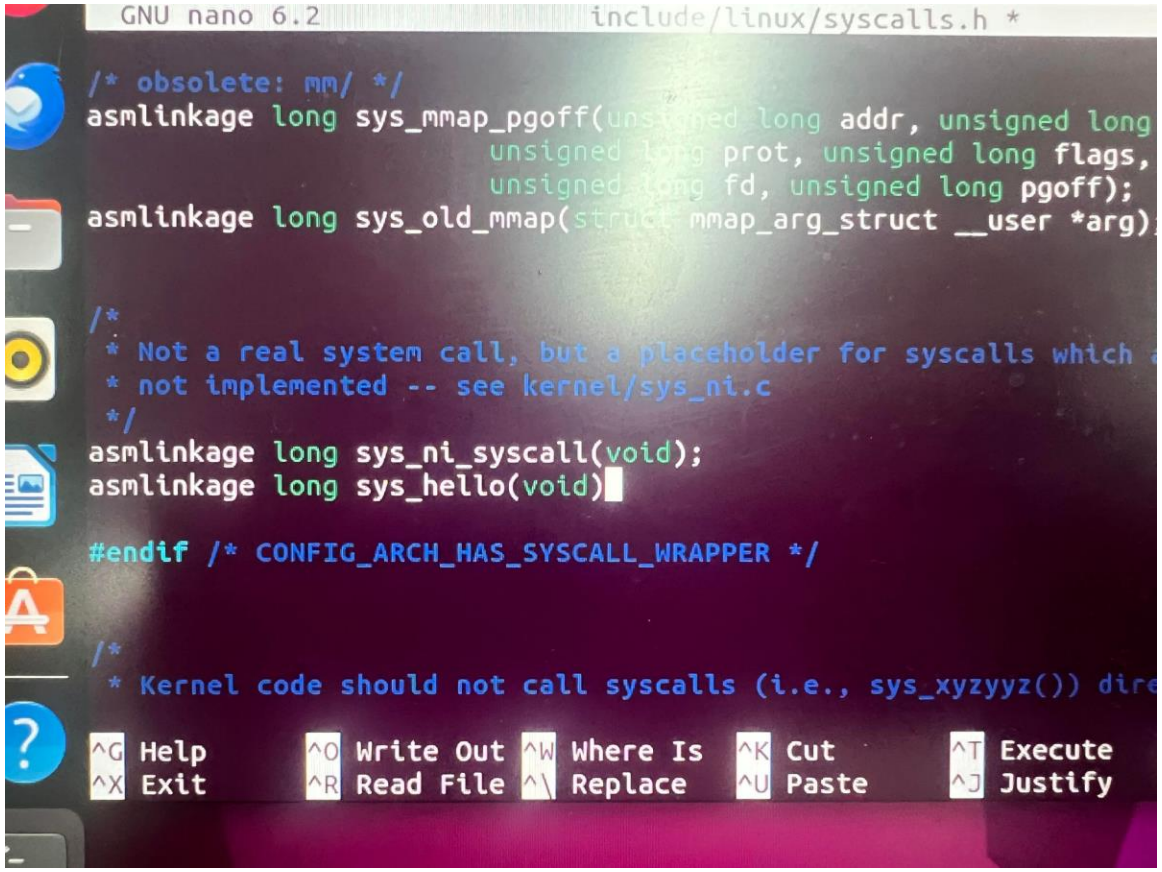


6.搜尋makefile 之 core-y更改

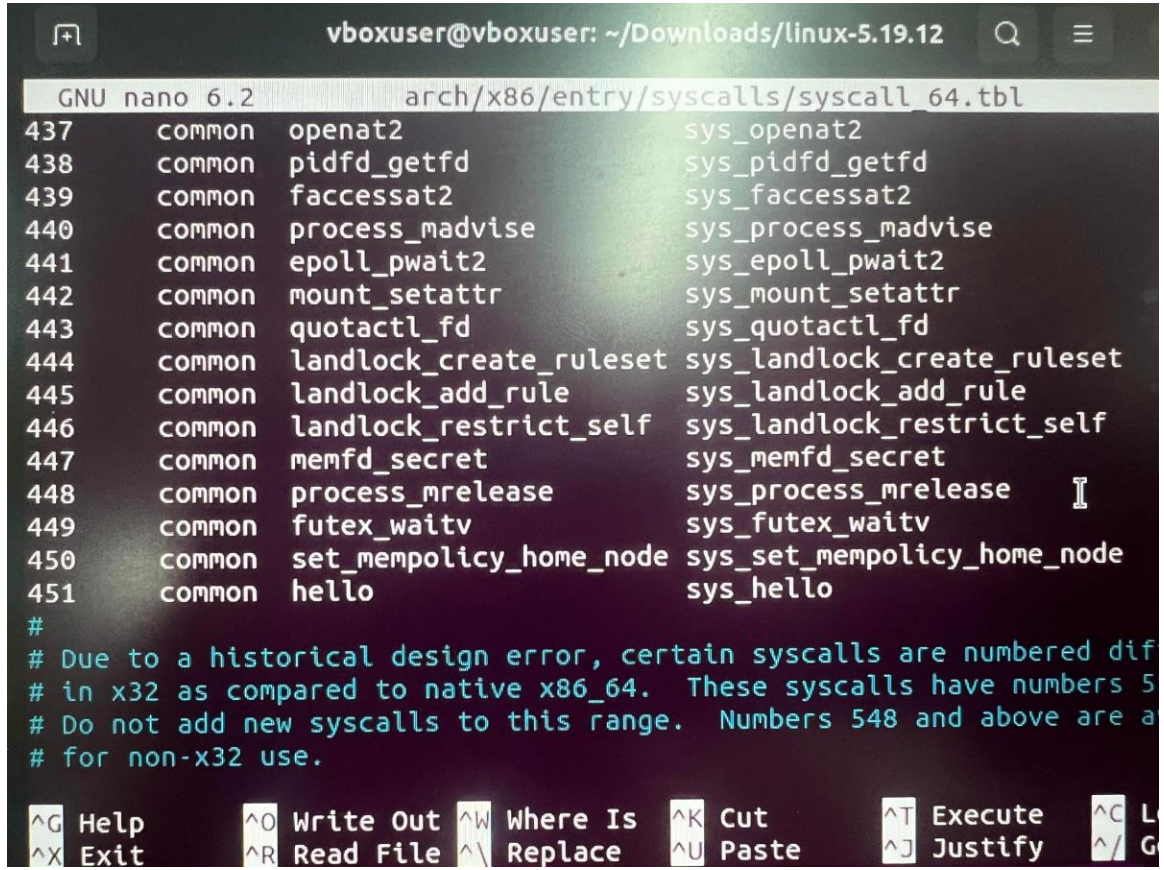


7.nano include/linux/syscalls.h

- 修改asmlinkage



8.修改system call



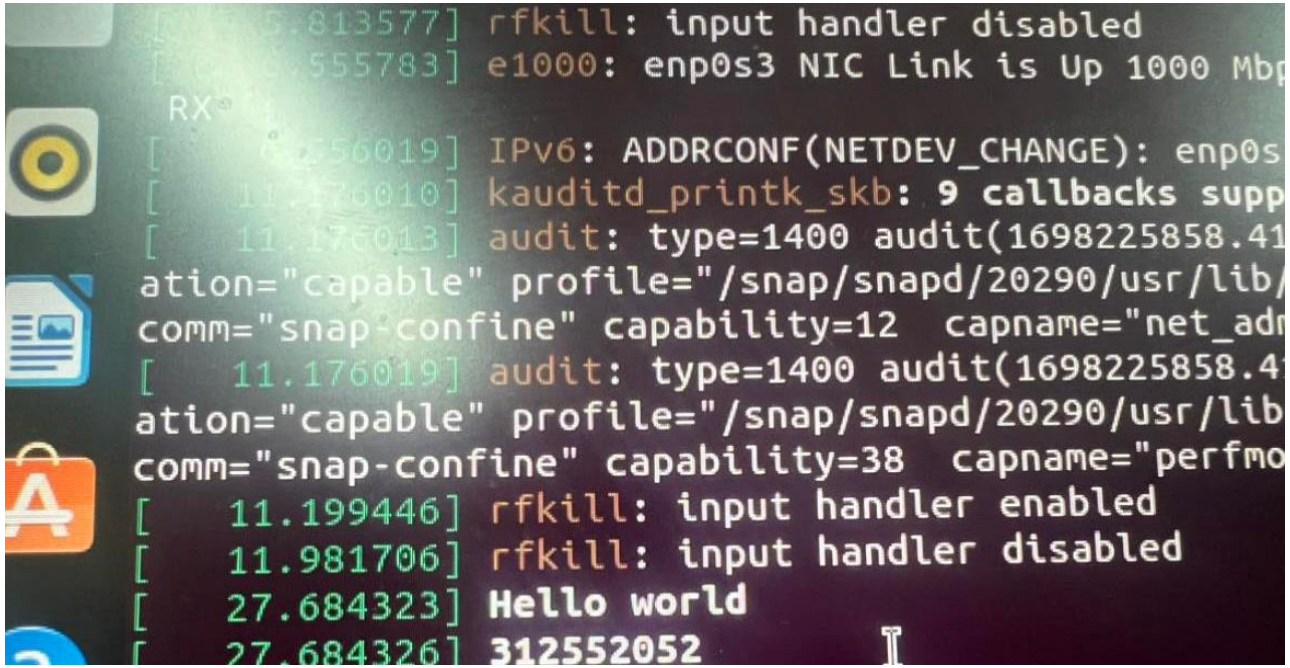
9.用report.c

on your system and works corre

```
#include <assert.h>
#include <unistd.h>
#include <sys/syscall.h>

/*
 * You must copy the __NR_hello marco from
 * <your-kernel-build-dir>/arch/x86/include/generated/uapi/asam/unistd_
 * In this example, the value of __NR_hello is 548
 */
#define __NR_hello 548

int main(int argc, char *argv[]) {
    int ret = syscall(__NR_hello);
    assert(ret == 0);

    return 0;
}
```

Besides, the kernel ring buffer should contain the messages that `sys_hello` pri

10. result


rfkill: input handler disabled
e1000: enp0s3 NIC Link is Up 1000 Mbp
RX
IPv6: ADDRCONF(NETDEV_CHANGE): enp0s
kauditd_printk_skb: 9 callbacks supp
audit: type=1400 audit(1698225858.41
ation="capable" profile="/snap/snapd/20290/usr/lib/
comm="snap-confine" capability=12 capname="net_adr
[11.176019] audit: type=1400 audit(1698225858.4
ation="capable" profile="/snap/snapd/20290/usr/lib
comm="snap-confine" capability=38 capname="perfmo
[11.199446] rfkill: input handler enabled
[11.981706] rfkill: input handler disabled
[27.684323] Hello world
312552052